

ABSTRACT

The hard disk drive of the present invention includes a magnetic head wherein the read head portions have gap insulation layers between the magnetic shields. The gap insulation layers are made up of multilayered laminations of an oxide or nitride of a metal such as aluminum, silicon, chromium, and tantalum. A preferred embodiment of the present invention includes laminated G1 and G2 gap insulation layers having 5-10 laminations, and having a total thickness of approximately 50 Å to 500 Å.